基礎雲端運算程式設計

A6409001_3B_邱郁涵

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圖目錄

題目

題目：請參考老師給的第 8 週 Code Fist Migration 講義(課本第 7 章及第 10 也有講解此主題)，建立一個具備 CRUD：【新增留言】、【刪除留言】、【修改留言】及【顯示所有留言】的留言板網站，並加入輸入關鍵字可以【查詢留言】之功能。

(1) 利用 ASP.NET MVC 建立網頁。

(2) 利用 Code First Migration 建立料庫。

(3) 利用 Scaffolding 技術自動建立具備 CRUD 功能的 Controllers 及 Views。

(4) 【查詢留言】的功能。

(5) 最後要將帶有資料庫的專案部署到私有雲(參考老師給的專案雲端部署講義，利用你的學號完成部署。

實作結果

操作畫面

- Query

Index

Create New

Title: 安　[Filter]

name	comment	date		
AAA	你好	2019/4/28	Edit	Details	Delete
BBB	午安	2019/4/28	Edit	Details	Delete
CCC	晚安	2019/4/28	Edit	Details	Delete

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圖 1

SearchIndex

Create New

Title: 安　[Filter]

name	comment	date		
BBB	午安	2019/4/28	Edit	Details	Delete
CCC	晚安	2019/4/28	Edit	Details	Delete

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圖 2

操作影片

- 有聲音_手機錄影

    https://drive.google.com/open?id=1cPJmJ91qapjJWp1PDzUz6WLqI0fp4aGF

- 無聲音_電腦錄影
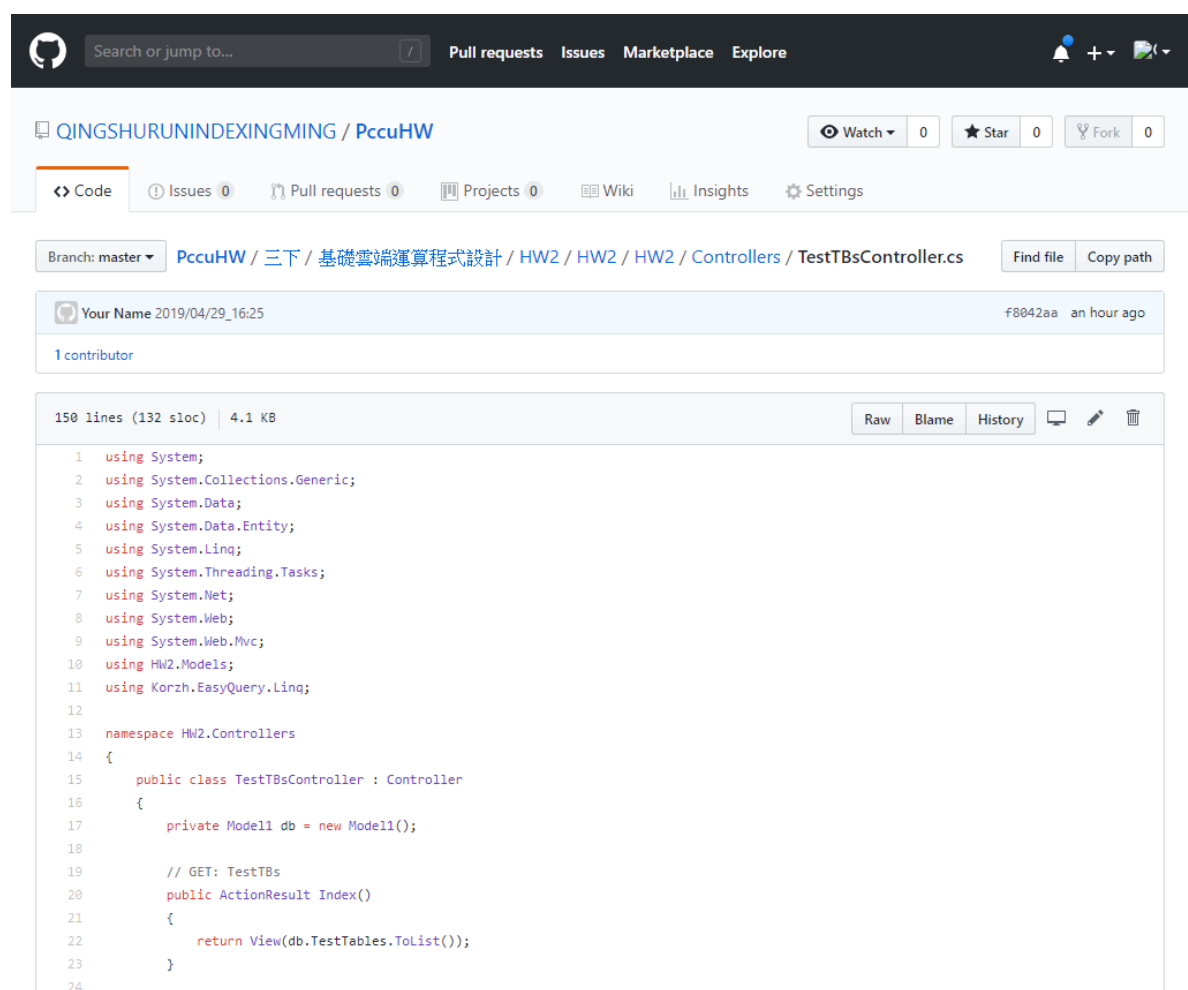
    https://drive.google.com/open?id=1zWEZoxzHY0Gjbus1X6Rk3ZU_SjjHlIuj

程式碼

Controllers

- TestTBsController.cs

圖 3

```
25          // GET: TestTBs/Details/5
26          public ActionResult Details(int? id)
27          {
28              if (id == null)
29              {
30                  return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
31              }
32              TestTB testTB = db.TestTables.Find(id);
33              if (testTB == null)
34              {
35                  return HttpNotFound();
36              }
37              return View(testTB);
38          }
39
40          // GET: TestTBs/Create
41          public ActionResult Create()
42          {
43              return View();
44          }
45
46          // POST: TestTBs/Create
47          // To protect from overposting attacks, please enable the specific properties you want to bind to, for
48          // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
49          [HttpPost]
50          [ValidateAntiForgeryToken]
51          public ActionResult Create([Bind(Include = "id,name,comment,date")] TestTB testTB)
52          {
53              if (ModelState.IsValid)
54              {
55                  db.TestTables.Add(testTB);
56                  db.SaveChanges();
57                  return RedirectToAction("Index");
58              }
59
```

圖 4

```
60              return View(testTB);
61          }
62
63          // GET: TestTBs/Edit/5
64          public ActionResult Edit(int? id)
65          {
66              if (id == null)
67              {
68                  return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
69              }
70              TestTB testTB = db.TestTables.Find(id);
71              if (testTB == null)
72              {
73                  return HttpNotFound();
74              }
75              return View(testTB);
76          }
77
78          // POST: TestTBs/Edit/5
79          // To protect from overposting attacks, please enable the specific properties you want to bind to, for
80          // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
81          [HttpPost]
82          [ValidateAntiForgeryToken]
83          public ActionResult Edit([Bind(Include = "id,name,comment,date")] TestTB testTB)
84          {
85              if (ModelState.IsValid)
86              {
87                  db.Entry(testTB).State = EntityState.Modified;
88                  db.SaveChanges();
89                  return RedirectToAction("Index");
90              }
91              return View(testTB);
92          }
```

圖 5

```
93
94        // GET: TestTBs/Delete/5
95        public ActionResult Delete(int? id)
96        {
97            if (id == null)
98            {
99                return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
100           }
101           TestTB testTB = db.TestTables.Find(id);
102           if (testTB == null)
103           {
104               return HttpNotFound();
105           }
106           return View(testTB);
107       }
108
109       // POST: TestTBs/Delete/5
110       [HttpPost, ActionName("Delete")]
111       [ValidateAntiForgeryToken]
112       public ActionResult DeleteConfirmed(int id)
113       {
114           TestTB testTB = db.TestTables.Find(id);
115           db.TestTables.Remove(testTB);
116           db.SaveChanges();
117           return RedirectToAction("Index");
118       }
119
120       protected override void Dispose(bool disposing)
121       {
122           if (disposing)
123           {
124               db.Dispose();
125           }
126           base.Dispose(disposing);
127       }
128
```
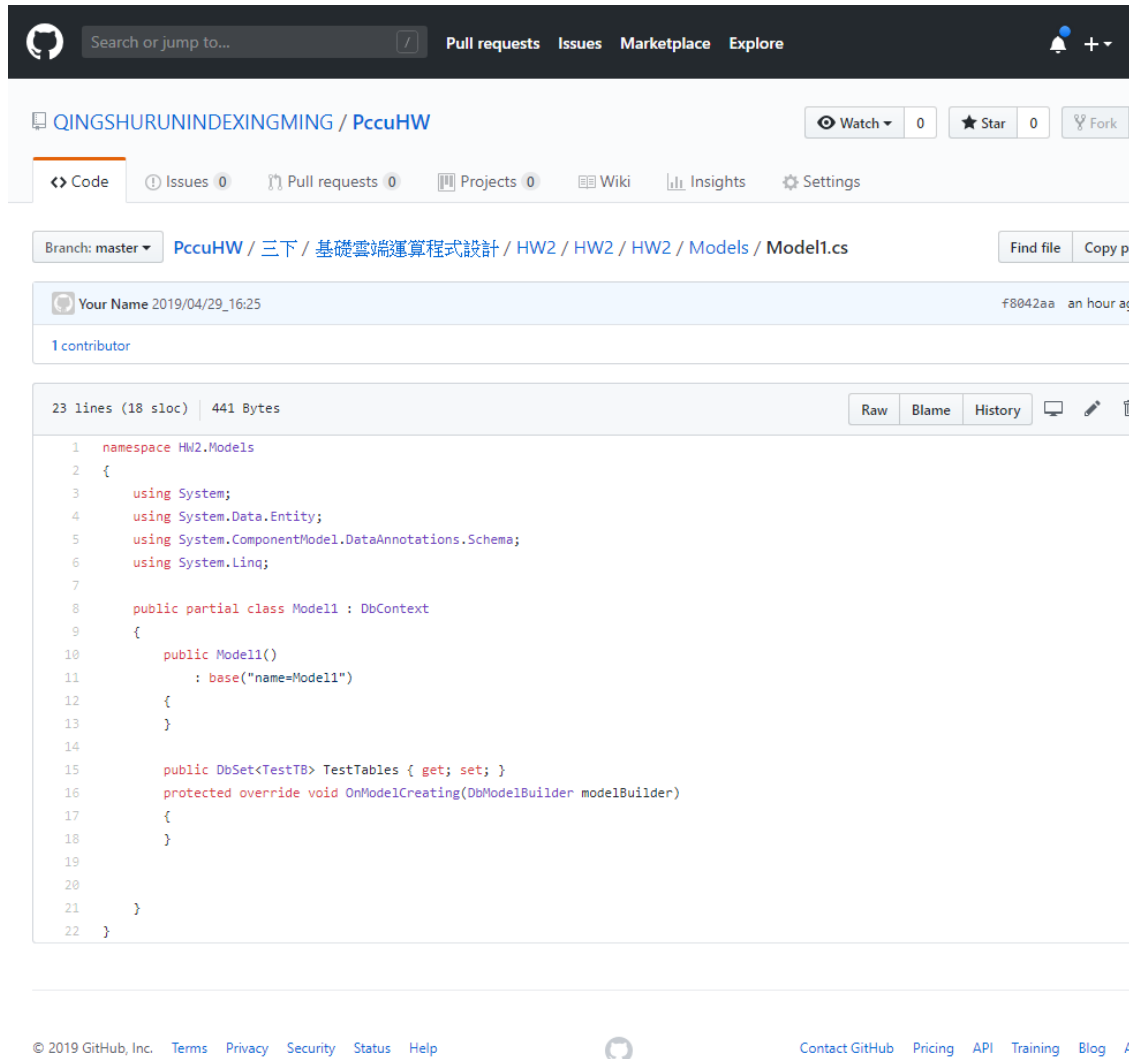
圖 6

```
129        [HttpPost]
130        public string SearchIndex(FormCollection fc, string searchString)
131        {
132            return "<h3> From [HttpPost]SearchIndex: " + searchString + "</h3>";
133        }
134
135
136
137        public ActionResult SearchIndex(string searchString)
138        {
139            var comments = from m in db.TestTables select m;
140
141            if (!String.IsNullOrEmpty(searchString))
142            {
143                comments = comments.Where(s => s.comment.Contains(searchString));
144            }
145
146            return View(comments);
147        }
148    }
149 }
```

圖 7

Models

- Model1.cs


```
namespace HW2.Models
{
    using System;
    using System.Data.Entity;
    using System.ComponentModel.DataAnnotations.Schema;
    using System.Linq;

    public partial class Model1 : DbContext
    {
        public Model1()
            : base("name=Model1")
        {
        }

        public DbSet<TestTB> TestTables { get; set; }
        protected override void OnModelCreating(DbModelBuilder modelBuilder)
        {
        }


    }
}
```
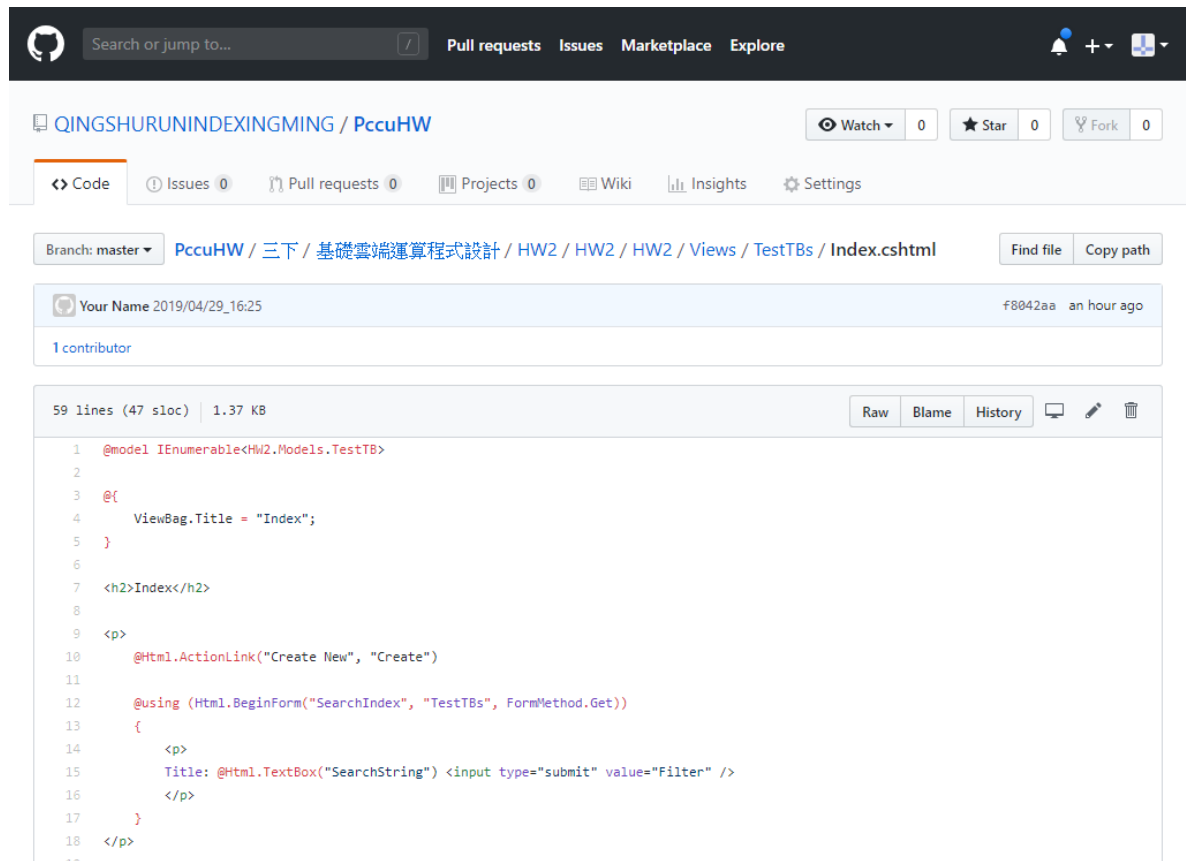
圖 8

- TestTB.cs

```
1   using System;
2   using System.Collections.Generic;
3   using System.Linq;
4   using System.Web;
5   using System.ComponentModel.DataAnnotations;
6
7   namespace HW2.Models
8   {
9       public class TestTB
10      {
11          [Key]
12          public int id { get; set; }
13
14          [Required]
15          public string name { get; set; }
16          [Required]
17          public string comment { get; set; }
18          [Required]
19          [DataType(DataType.Date)]
20          public DateTime date { get; set; }
21
22      }
23  }
```

圖 9

Views

- Index.cshtml

圖 10

```
15
20
21
22
23    <table class="table">
24        <tr>
25            <th>
26                @Html.DisplayNameFor(model => model.name)
27            </th>
28            <th>
29                @Html.DisplayNameFor(model => model.comment)
30            </th>
31            <th>
32                @Html.DisplayNameFor(model => model.date)
33            </th>
34            <th></th>
35        </tr>
36
37        @foreach (var item in Model)
38        {
39            <tr>
40                <td>
41                    @Html.DisplayFor(modelItem => item.name)
42                </td>
43                <td>
44                    @Html.DisplayFor(modelItem => item.comment)
45                </td>
46                <td>
47                    @Html.DisplayFor(modelItem => item.date)
48                </td>
49                <td>
50                    @Html.ActionLink("Edit", "Edit", new { id = item.id }) |
51                    @Html.ActionLink("Details", "Details", new { id = item.id }) |
52                    @Html.ActionLink("Delete", "Delete", new { id = item.id })
53                </td>
54            </tr>
55        }
56
57    </table>
58
```

圖 11

- SearchIndex.cshtml

```
 1    @model IEnumerable<HW2.Models.TestTB>
 2
 3
 4    @{
 5        ViewBag.Title = "SearchIndex";
 6    }
 7
 8    <h2>SearchIndex</h2>
 9
10    <p>
11        @Html.ActionLink("Create New", "Create")
12        @using (Html.BeginForm("SearchIndex", "TestTBs", FormMethod.Get))
13        {
14    <p>
15            Title: @Html.TextBox("SearchString") <input type="submit" value="Filter" />
16        </p>
17    }
18    </p>
19        <table>
20            <tr>
21                <th>
22                    name
23                </th>
24                <th>
25                    comment
26                </th>
27                <th>
28                    date
29                </th>
30                <th></th>
31            </tr>
32
33        @foreach (var item in Model)
34        {
35            <tr>
36                <td>
37                    @Html.DisplayFor(modelItem => item.name)
38                </td>
39                <td>
40                    @Html.DisplayFor(modelItem => item.comment)
41                </td>
42                <td>
43                    @Html.DisplayFor(modelItem => item.date)
44                </td>
```

14

```
45              <td>
46                  @Html.ActionLink("Edit", "Edit", new { id = item.id }) |
47                  @Html.ActionLink("Details", "Details", new { id = item.id }) |
48                  @Html.ActionLink("Delete", "Delete", new { id = item.id })
49              </td>
50          </tr>
51      }
52
53  </table>
```

圖 12

學習心得

希望能上手些，手機 APP 還沒做完